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ASBESTOS IN A NEW ROLE IN 1964

By: W. E. Sinclair, M.I.M.M.

(Mr. Sinclair is Consulting Engineer to Putten's Asbestos Corporation Limited.)

Notwithstanding the variation in comparative outputs in different producing fields last year (1963), world production has exceeded all past records, to a figure of well over three million tons, of all varieties of asbestos.

It is paradoxical that this record output should have been achieved, to a limited degree, by the much maligned dumping of asbestos by Russia on world markets.

Nevertheless, the rising curve of asbestos production and consumption, is in line with the general upward trend in most mineral and base metal outputs. This is clearly indicative of the industrial progress that is fully maintained despite the unsettled political state in so many parts of the world.

As is well known, asbestos, in one form or another, is closely linked with many general industrial activities and, in the past few years, the mineral has kept to the forefront in an era of unprecedented expansion in every direction. Indeed, the steady and growing consumption of asbestos fibres points to something more than the normal demand during the past decade.

For one thing, although possibly a small demand, the growth of the plastic industry (in which asbestos plays a growing part), is but one of several new fields of application. In addition, however, the increased demand for the mineral is due mainly to new industrial developments in the industry itself. This all accounts for the gratifying upsurge in the asbestos world.

In terms of tonnage used, it is accepted that building construction products constitute the main outlet for asbestos. Assuming that all asbestos-cement products are included in this category, then it is estimated that asbestos consumption in this field accounts for approximately 64% of total production. And the demand in this sphere is growing.

Having so many valuable inherent properties, it is natural that manufacturers will endeavor to use asbestos fibres in all special products when they can. As it happens,

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in the building field, lacking rigidity is a disadvantage that asbestos has overcome by the combination of the fibres with cement to form a product having a strong rigid physical quality. This fact has proved the extreme value of asbestos fibres as a strong reinforcing medium. Hence the steady increase in the utilization of asbestos-cement products in construction work where, not only is the strength of material an essential factor, but incombustibility and resistance to heat are among the many virtues that result in the most durable building materials.

Another interesting point, in the building branch of the industry, is the development in the construction of prefabricated constructed building elements in which asbestos could play an important part as a strengthening component. The basic foundation of these elements consists of plastic materials which, besides door and window frames, are formed into wall sections. These contain all the cold water and waste water pipes together with discharge connections complete.

While the above is but one example of progress in this sphere, the growth in the use of asbestos-cement piping is a revolutionary step in the industry. These pipes, besides an increasing application in building and construction, are displacing metal pipes in mines and many engineering industries. The amphibole varieties (crocidolite and amosite) are being largely used in making pipes and other products that are resistant to acids and alkalies, more especially where piping is needed to convey any chemical and other corrosive solutions.

Although asbestos fibres are used to a great extent in reinforced plastic products of various kinds, there seems a possibility of a growing application in the new development of plastic building materials, as already mentioned above. It is more than likely in these applications, that asbestos fibres used with thermo-setting resins and solidified under controlled conditions of temperature and pressure will prove a perfect re-inforcing medium and may obviate the use of aluminum or steel in this sphere.

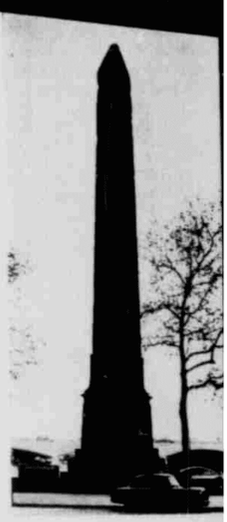
Incorporated in many plastic branches of the industry, asbestos is likely to become increasingly important. Already its use is widely diverse and occurs in many surprising

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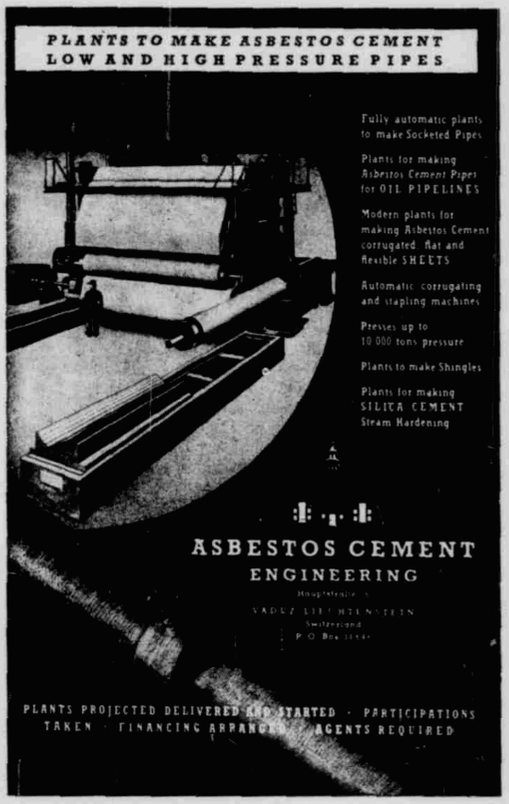
applications and forms. As an example, asbestos fibres are used in rocket designs and jet engines where unusually high tensile and flexural strength at elevated temperatures are essential attributes. In this same range, phenolic asbestos products replace metal tanks in aircraft, while in the form of felt or laminated (impregnated with certain resins) they are also used for other aircraft parts, even to the exent of making glider wings and scanner aerials. Constructed from phenolic asbestos products these parts are as strong as and stiffer than an aluminum alloy of the same profile, which actually would weigh twice as much as the plastic product. These fabricated sections, it may be said, are not only light and strong, but are unaffected by extremes of temperature and humidity. It is reported that an innovation in the industry is the use of resinated asbestos to make plastic lifeboats which are able to resist the possible effects of fire, such as burning oil on the surface of the water.

The moulded plastic branch of the industry is not new and the products made are fairly well known since they are utilized in countless forms in industry. One example in which asbestos fibres constitute an important component is in the fabrication of plastic pipes (already referred to), which are flexible and resistant to the corrosive solutions and other deleterious liquids.

An interesting feature of many of the plastic compounds is the fact that asbestos proves an important part as a filler in the fabrication of cold moulded thermo-plastics and the thermo-setting types. In the first named, Phenolic resin constitutes the main bonding material, although many other resins are used in the various fabricating processes of which there are numerous diverse products.

In all these classes of plastics mouldings, the heat resistance and the strength of the finished products are naturally furnished by the addition of asbestos. These valuable attributes, as reinforcing media, promise a wide and growing application in the future of the industry.

It should be noted that there are limitations in the plastic field, a not unusual fact in any relatively new development. One case that is associated with the use of asbestos is that organic plastics low-pressure packings and



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gaskets are inferior to the all asbestos products, although they may serve temporarily in an emergency.

Most engineering branches of modern industrial concerns connected mainly with the fabrication of friction materials, insulation and various engineering auxiliary parts such as packing, gaskets, and so on, fully recognize (as do the users) the valuable properties of asbestos. The demand for fibre for these commodities is steadily rising and there is little doubt that a wider range of application is certain to be found for the different varieties of asbestos in this field in the coming year.

Fortunately, many of the large producer-cum-manufacturing companies are working on research projects designed basically to improve modern techniques in asbestos and uses but, in addition, the most important aspect of the work is the considered research on less conventional projects. This, in one outstanding instance has already produced promising results in the mixing of short fibres in asphalt paving on roads and runways. Even though only a small proportion of asbestos fibres (2% to 3%) are added to the asphalt mix to achieve stable and long wearing surfaces, the extra cost is more than likely to practically eliminate normal maintenance charges. If this practice proves economical, it must eventually step up the demand for appreciable tonnages of short fibres, for use in road and aerodrome surfacing throughout the world. Such a work is really an urgent need in view of the phenomenal growth of these forms of transport today.

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BALDWIN-EHRET-HILL, INC., Trenton, New Jersey, has acquired the thermal insulation contract divisions of the MUNDET CORK CORPORATION. B-E-H and its predecessor companies have been manufacturing insulation and acoustical products since 1897. Mundet Cork organized its first insulation contract unit in 1923. The acquisition includes physical facilities and personnel of Mundet Cork in ten locations and greatly expands B-E-H's distribution capabilities. Leon T. Choate who has been Mundet Executive Vice President, has joined B-E-H as Vice President of Industrial Sales. According to E. R. Stevens, B-E-H President, "The availability of company-owned contract units from coast to coast, supplementing *our current relationships* with independent insulation contractors, provides us with the ability to serve nation-wide industrial and commercial customers on a much wider scale. It places Baldwin-Ehret-Hill in a leading position in the industry."

ERNEST J. O'LEARY, Chairman and President of The Ruberoid Co., has been elected a Trustee of Emigrant Industrial Savings Bank, New York City. Mr. O'Leary has been identified with the building materials industry throughout his entire business career and presently is a member of the Board of Governors and Executive Committee of the Asphalt Roofing Industry Bureau and is the newly elected President of the American Hardward Manufacturers Association. In addition, he holds directorships in *Starrett Brothers & Eken, Inc., Cabot Titania Corporation* and the Gypsum Association.

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AUTOMOBILE SALES

	December 1963	Year 1963
Passenger Cars	753,984	7,637,728
Trucks & Buses	127,841	1,462,708
	881,825	9,100,436

In December 1962 a total of 776,093 motor vehicles were sold. In the year 1962 the total was 8,173,408.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

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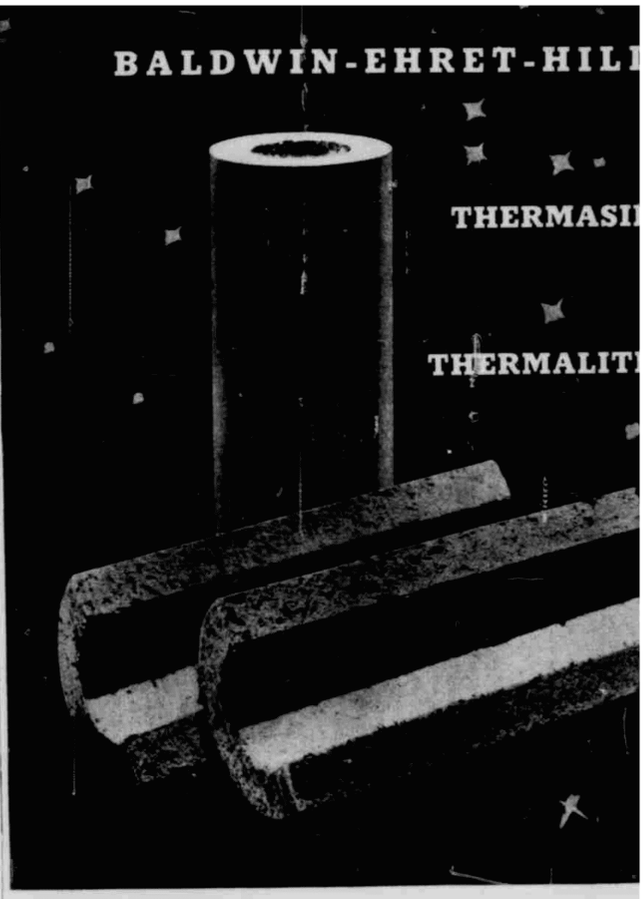
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ASBESTOS-ASPHALT—A report, released for the first time during the meeting in New Orleans of the National Bituminous Concrete Association, reveals that use of asbestos-asphalt mixes has widened considerably in both type of application and volumes of material used. According to *Johns-Manville*, whose efforts with these materials have intensified in recent years, the number tons of asbestos fiber used during 1963 for use in asphalt paving and curbing doubled over that sold in 1962. Increased interest of the work going on with these materials was evidenced during the recent Washington meeting of the Highway Research Board during which considerable mention was made to asbestos-asphalt mix designs in a number of the papers presented. Two areas in which asbestos-asphalt mixes have been extremely beneficial to users are in thin overlays and asphalt curbings.

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MARKET CONDITIONS

GENERAL BUSINESS.

General business continues to show signs of improvement. Steel production is at a high rate and automobile production and sales are at levels higher than at this time last year. The cut in Federal taxes has been enacted into law and the general opinion is that this should result in increased personal and corporate spending which would give the entire economy a boost. The stock market reflected this thinking by attaining a new historic high the last week in February.

ASBESTOS—RAW MATERIAL.

Quebec asbestos fibre shipments for the Industry during January 1964 at 69,770 tons exceeded the same period last year by 13,086 tons or approximately 2%.

A 5% increase for the Industry in 1964 fibre shipments is forecast.

ASBESTOS—MANUFACTURED GOODS.

Asbestos Textiles. Sales of asbestos textiles through February 1964 exceeded the mills' ability to keep pace with demand and all indications point toward a continuation of this high level of activity. The industry feels confident that the present momentum will carry through the year and result in new sales records.

Asbestos Brake Lining. The present market situation is good and this condition should continue for the rest of the year.

Asbestos Paper & Millboard. Business for these products remains steady and prices are stabilized. This situation should remain through the coming months.



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High Pressure Insulation. The flow of business for this market is good and prices remain firm. Volume of demand during 1964 should be good.

Asbestos-Cement Siding. Demand for this product is seasonally slow but should show considerable improvement within the next few months.

Asbestos-Cement Pipes. Present conditions show an unusual demand for pipe products which are normally slow at this time of the year. It would appear from present indicators that the balance of the year should be extremely satisfactory for sales although competitive conditions will keep profits down.

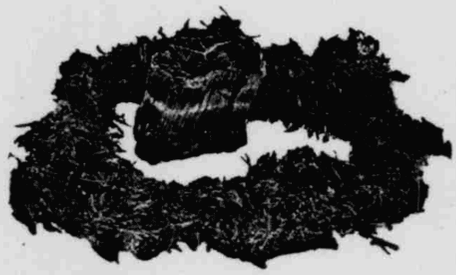
Asbestos Filter Fiber. The demand for low iron white filter fiber is steady and it is expected that the market during 1964 will exceed 1963.

The above comments have been made by various informed executives in the Industry. All comments are welcome.

ASTM, in connection with an important reorganization of its managerial staff, has announced the following staff changes: George A. Wilson—Director of Publications Operations; Henry J. Stremba—Production Manager; Robert P. Lukens—Assistant Standards Editor; and, Albert L. Batik—Publications Business Manager. Raymond E. Hess, formerly Director of Publications Operations, has retired after being with ASTM for 44 years. He will, however, still be associated with the Society as a Consultant.

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CANADIAN CLASSIFICATION — At a meeting on January 13, 1964, the directors of the Quebec Asbestos Mining Association approved the reinstatement of fibre grade 5-Z (minimum shipping test 0.0 — 0.0 — 8.6 — 7.4).

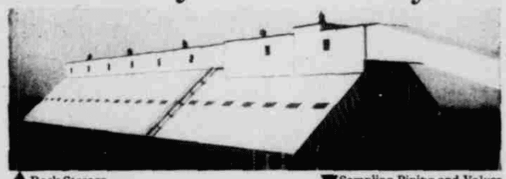
CANADIAN CHRYSOTILE ASBESTOS CLASSIFICATION, *including description of method of testing on* the Canadian Standard Testing Machine, January 9,1961 edition, is available at 35¢ per copy from "ASBESTOS", 807 Western Saving Fund Building, Philadelphia, Pennsylvania 19107.

CANADIAN SPECIFICATIONS — The Index of Canadian Specifications & Standards has been revised to December 31, 1963, and a free copy can be obtained from the Secretary, Canadian Government Specifications Board, National Research Council, Ottawa, Canada (N.R.C. No. 7764). Items included in these specifications are asbestos-cement products, thermal insulation products, and the Quebec Standard Asbestos Testing Machine, Model No. 2, 1938.

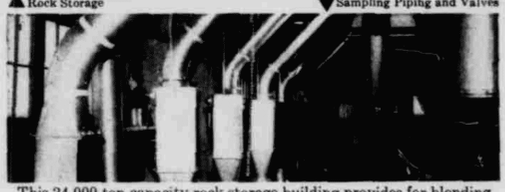
INTERNATIONAL HEVAC EXHIBITION—The very wide range of specialized plant used in the HEVAC industry is fully served in all its insulation requirements by ROCKSIL and ROCKSIL-K rockwool and CAPOSITE and CAPOSIL asbestos insulating materials manufactured by *Cape Insulation & Asbestos Products Limited*, and displayed on their Stand No. 452, Grand Hall, Olympia, at the International Hevac Exhibition, April 15th through 24th, 1964.

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PRODUCTION

Canada—The Dominion Bureau of Statistics has issued the following for the month of November 1963 in short tons: Producer's Shipments totalled 148,395 (Quebec—135,172 and Newfoundland, Ontario, British Columbia—13,223). Total shipments for November 1962 were 148,942.

Canada—The Dominion Bureau of Statistics has issued the following for the month of December 1963 in short tons: Producer's Shipments totalled 106,338 (Quebec—89,425 and Newfoundland, Ontario, British Columbia—16,913). Total shipment for December 1962 were 83,838.

Canada—The Dominion Bureau of Statistics has issued the following for the year 1963 in short tons: Producer's Shipments totalled 1,276,749 (Quebec—1,158,187 and Newfoundland, Ontario, British Columbia—118,562). Total shipments for the year 1962 were 1,214,992.

Cyprus—The Ministry of Commerce & Industry has issued the following statistics (production in short tons & exports in long tons) for the 4th quarter of 1963: October—Production 2,493; Exports 2,258, valued at £128,641; November—Production 2,304. Exports 1,303, valued at £66,930; and, December—Production 1,125, Exports 11, valued at £156.

Southern Rhodesia—The Chamber of Mines Journal has issued the following statistics: December 1963—Production 12,274.93 tons, valued at £534,816; and, Year 1963—Production 142,255.46 tons, valued at £5,995,760.

Australian Mineral Industry, 1962 Review—This Review has been issued by the Bureau of Mineral Resources, Geology and Geophysics, Canberra City, A.C.T., Australia, and contains a chapter on asbestos which gives the following statistics in short tons: Production—18,416; Exports—9,738; Imports—39,105; and, Apparent Consumption—47,783.

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Noramite identifies a group of new products which greatly extend the range of properties normally available in reinforcing fibers. Noramite products, all based on Amosite or Crocidolite asbestos, include prepared fibers, rovings, ropes and fabrics. Greater chemical resistance, higher moduli, and greater heat resistance are among the principal advantages of Noramite products.



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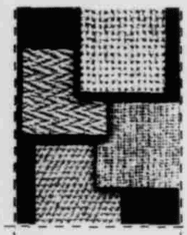
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J-M Asbestos Yarn—made from uniform high-quality roving. Available in any grade, cut or ply Plain, reinforced with other yarns or wire, or treated.



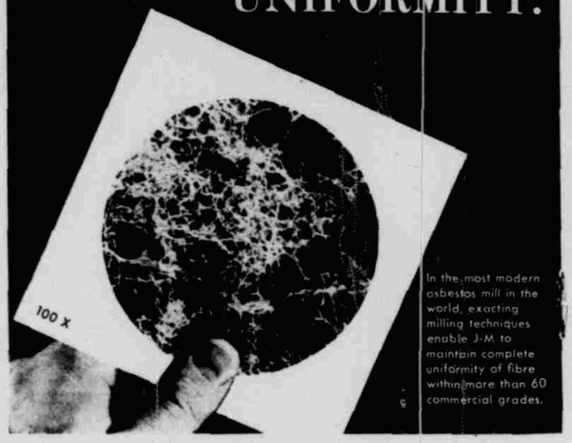
J-M Asbestos Tape uniform high-grade yarns that combine exceptional electrical and thermal insulating properties with high tensile strength.



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In the most modern asbestos mill in the world, exacting milling techniques enable J-M to maintain complete uniformity of fibre within more than 60 commercial grades.

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For FIBRE literature write Asbestos Fibre Division, Box 1500, Asbestos, Quebec, Canada.

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IMPORTS & EXPORTS

Imports Into U.S.A.

(Figures by Bureau of the Census)

Unmanufactured Asbestos:

	October 1963 Short Tons
From: Canada	55,621
Republic of South Africa	1,372
Rhodesia & Nyasaland	487
United Kingdom	193
Yugoslavia	1,047
Other Countries	270
	58,990
Valued at:	$5,112,913
By Grades:	
Amosite, Crude, Republic of South Africa	1,132
Rhodesia & Nyasaland	170
Other Countries	42
Crocidolite (Blue), Crude, Republic of South Africa	240
Chrysotile, Crude	60
Chrysotile, Spinning Fibres, Canada	1,380
Rhodesia & Nyasaland	55
Other Countries	25
Chrysotile, Other, Canada	48,771
Yugoslavia	1,047
Rhodesia & Nyasaland	262
Other Countries	5
Asbestos, Other, Canada	5,470
United Kingdom	193
Other Countries	138
	58,990

Manufactured Asbestos Goods:

	Quantity (lbs.)	Value
A-C Pipes, Tubes & Fittings, Canada	1,263,213	$ 56,141
Mexico	1,162,600	85,954
Belgium	3,393,852	191,953
West Germany	1,024,122	44,727
Italy	839,254	41,461
Israel	1,191,242	53,669
Japan	712,956	27,927
A-C Articles, Other, Canada	821,537	46,231
Belgium	525,569	70,958
Other Countries	16,237	1,536

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In England — The Flintkote Co., Ltd., Adam House, 1 Fitzroy Square, London W-1, England

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Asbestos Yarn, Canada	34,961	11,487
United Kingdom	38,841	28,123
Israel	30,416	13,265
Other Countries	4,168	2,386
Asbestos Articles, Other, Canada	..	27,090
United Kingdom	..	14,036
Other Countries	..	20,426
		$737,370

Unmanufactured Asbestos: November 1963

	Short Tons
From: British East Africa	190
Canada	47,269
Republic of South Africa	1,835
Rhodesia & Nyasaland	300
Other Countries	256
	49,850

Valued at: $4,504,686

By Grades:

Amosite, Crude, Republic of South Africa	1,505
Rhodesia & Nyasaland	270
Crocidolite (Blue), Crude, British East Africa	70
Republic of South Africa	210
Chrysotile, Crude, British East Africa	120
Other Countries	143
Chrysotile, Spinning Fibers, Canada	1,162
Rhodesia & Nyasaland	30
Chrysotile, Other, Canada	42,622
Asbestos, Other, Canada	3,485
Republic of South Africa	120
Other Countries	113
	49,850

Manufactured Asbestos Goods:

	Quantity (lbs.)	Value
A-C Pipes, Tubes & Fittings, Canada	408,240	$ 18,104
Mexico	751,510	55,171
Belgium	3,556,005	218,156
West Germany	1,526,517	63,730
Italy	2,162,148	87,784
Japan	747,251	29,033
Other Countries	18,568	761
A-C Articles, Other, Canada	392,380	30,975
Belgium	1,062,785	125,984

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What are your requirements? Chrysotile asbestos with high reinforcing strength plus superior wetting characteristics? Greater surface area plus low grit content? Whatever the combination, Lake may have exactly *what's needed.*

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Illinois, Chicago — Fred A. Jensen & Associates, Inc.
Massachusetts, Allston — D. H. Litter & Co., Inc.
Michigan, Detroit — Baker & Collinson
Missouri, St. Louis — Harry A. Baumstark & Company
New York, Buffalo — Buffalo Solvents & Chemicals Corp.
New York, New York — D. H. Litter & Co., Inc.
Ohio, Cleveland — A. C. Mueller Co., Inc.
Oregon, Portland — Van Waters & Rogers, Inc.
Pennsylvania, Conshohocken — Van Horn, Metz & Co., Inc.
Texas, Houston — Cron Chemical Corp.
Utah, Salt Lake City — Braun-Knecht-Heimann Co.
Washington, Seattle — Van Waters & Rogers, Inc.
In Canada: Toronto & Montreal — Federated Metals Canada, Ltd.

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LAKE ASBESTOS

ASARCO

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Asbestos Yarn, United Kingdom	34,503	27,486
Other Countries	1,179	629
Asbestos Articles, Other, Canada	..	20,030
United Kingdom	..	16,018
Other Countries	..	12,637
		$706,498

Imports By United Kingdom

Raw Materials	December	Year
Tons 2,240 lbs.	1963	1963
From: Republic of South Africa	2,121	25,330
Basutoland, Bechuanaland & Swaziland	1,050	17,271
Rhodesia & Nyasaland	1,781	38,757
Canada	9,278	72,475
Other Commonwealth Countries & Irish Republic	..	1,807
Foreign Countries	347	1,914
	14,577	157,554

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Exports From U.S.A.

(Figures by Bureau of the Census)

October 1963

Unmanufactured Asbestos:

	Short Tons	Value
To: Australia	50	$ 5,130
Canada	89	22,730
Chile	6	2,288
Italy	80	17,931
Japan	572	56,877
Korean Republic	89	7,425
Mexico	66	8,191
Netherlands	33	3,575
Philippine Republic	26	4,500
West Germany	44	10,434
Other Countries	5	1,329
	1,060	$ 140,410

Manufactured Asbestos:

	Production	Value
Asbestos Cement & Pipe Covering ..Lbs	368,370	$ 113,127
Asbestos Textiles & Yarn .....Lbs	50,375	74,807
Asbestos Packing .....Lbs	187,780	257,876
Asbestos Clutch Facing .....No	163,243	150,760
Asbestos Bk Lng (Mld & S.Mld) .Lin Ft	102,454	38,839
Asbestos Brake Lining, Other .....Lbs	535,990	446,112
Asbestos Construction Material ....Lbs	4,808,875	492,889
Asbestos Manufactures—Other	..	101,377
		$1,672,787

Unmanufactured Asbestos:

November 1963

	Short Tons	Value
To: Canada	100	$ 10,697
India	10	4,055
Italy	25	5,000
Japan	376	31,095
Korean Republic	62	4,851
Switzerland	19	2,860
United Kingdom	20	1,880
West Germany	55	13,377
Other Countries	15	2,487
	682	$ 76,302

Manufactured Asbestos:

	Production	Value
Asbestos Cement & Pipe Covering ..Lbs	571,827	$ 118,658
Asbestos Textiles & Yarn .....Lbs	102,548	75,344
Asbestos Packing .....Lbs	127,905	211,135



Produces longer fibres with fewer fines

On-the-job performance has proved that the new Simplicity D'centegrator will produce longer fibres. The horizontal impeller action fibrizes so thoroughly that the longer fibres are not "dirtied." Tests to date also indicate a higher recovery rate and a lower percent of fines. Basic design permits lower initial cost and exceptionally low maintenance costs.

Model 24-A has 12 fibrizing bars and will take up to 60 t.p.h. of 2" cubical feed. Simplicity D'centegrators are now producing higher profits for mills in the U.S., Canada and South Africa. Write or call for literature and your own test at our plant.

312

OTHER MINING INDUSTRY EQUIPMENT: vibrating screens, feeders, grizzly feeders, scalpers, crushers, conveyors.

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Asbestos Clutch Facing	No	184,289	179,672
Asbestos Bk Lng (Mld & S.Mld)	Lin Ft	145,255	68,805
Asbestos Brake Lining, Other	Lbs	682,656	428,790
Asbestos Construction Material	Lbs	3,407,613	372,485
Asbestos Manufactures—Other			66,628
			$1,521,517

Caribbean Asbestos Products Limited, Jamaica, West Indies, announced that contract has been awarded for the construction of a new $400,000 plant for the production of asbestos-cement pipe, which will be located in the Montego Bay area. Caribbean Asbestos is a new company established with headquarters in Kingston, Jamaica, and jointly owned by Jamaican and U.S.A. investors.

Venezuela—The Ministry of Mines and Hydrocarbons, Caracas, Venezuela, has proposed a 1964 budget of 14,147,610 bolivares for the prospecting and exploitation of asbestos, iron, gold and nickel. Regarding asbestos, the Government only plans a study of the deposits near Tinaquillo in Cojedes State to see if further exploitation is worthwhile.

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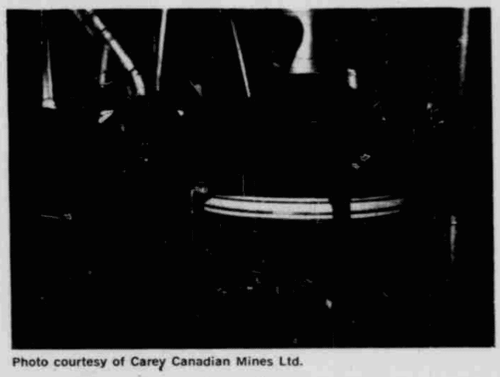


Photo courtesy of Carey Canadian Mines Ltd.

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Modern asbestos mills and processing plants utilize Bauer Specific Gravity Separators for separating rock and fibres and reclaiming processed fibres. Two models, rated at 1 to 5 T/hr. capacity, use less air than other type cleaners; handle No. 4 to No. 7 fibres.

Fast, efficient removal of small grit, rock particles, blasting wire, wood particles and other kinds of debris. Ask for details.

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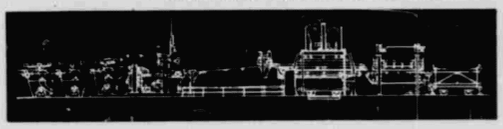
INDUSTRY NEWS

HAPPY BIRTHDAY

George R. Vila, President, United States Rubber Company, New York City, March 12.
Jan van der Putten, Chairman & Managing Director, Putten's Asbestos Organization, Johannesburg, South Africa, March 15.
Richard L. Small, Treasurer, Drycor Felt Company, Staffordville, Connecticut, March 16.
Douglas Aynsley, Director, Beldam Asbestos Company Limited, Hounslow, England, March 17.
Colon Brown, Vice President—Corporate Development, National Gypsum Company, Buffalo, New York, March 17.
Walter J. Keimig, Secretary, Scandura, Inc., Charlotte, North Carolina, March 18.
J. O. Eby, Vice President & Jeffrey Mine Manager, Canadian Johns-Manville Co. Ltd., Asbestos, Quebec, Canada, March 19.
J. C. Anderson, Vice President—Manufacturing, Atlas Asbestos Company Limited, Montreal, Canada, March 20.
Emil T. Johnson, Senior Vice President, Fibrous Products Division, Unarco Industries, Inc., Bloomington, Illinois, March 21.
John H. Balch, Senior Vice President & Treasurer, Unarco Industries, Inc., Chicago, Illinois, March 22.
Grady B. Gulledge, President, Pan-American Fiber Corporation, Phoenix & Globe, Arizona, March 23.
George Barge, Vice President—Finance, Atlas Asbestos Company Limited, Montreal, Canada, March 27.
Adrain R. Fisher, Director, Johns-Manville Corporation, New York City, March 27.
Edward McL. Tittmann, Chairman, American Smelting and Refining Company, New York City, March 27.
J. T. Griffis, Sales Manager, Thermoid Division, H. K. Porter Company, Inc., Charlotte, North Carolina, March 28.
The Right Hon. Lord Elton, Director, The Cape Asbestos Company Limited, London, England, March 29.
Charles W. Hite, Vice President for Industrial Relations, Johns-Manville Corporation, New York City, March 30.
Francis H. May, Jr., Vice President for Finance & Director, Johns-Manville Corporation, New York City, April 2.
William H. White, Treasurer, Assistant Secretary & Director, Raybestos-Manhattan, Inc., Passaic, New Jersey, April 2.
Fred A. Manske, President & Director, National Gypsum Company, Buffalo, New York, April 4.
Cedric H. Rothschild, Secretary-Treasurer, Canadian Asbestos Company, St. Laurent, Montreal, Canada, April 5.

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L. E. Lewis, Vice President, Asbestos Products, Inc., St. Paul, Minnesota, April 9.
Raymond J. Sachs, President & Treasurer, H. W. Porter & Company, Inc., Newark, New Jersey, April 10.
J. Vermeer, Managing Director, Chemische Productenhandel J. J. van de Vrande, Haarlem, The Netherlands, April 13.
Joseph G. Hall, Vice President for Sales, Building Products Division, The Ruberoid Co., New York City, April 14.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

American Brake Shoe 1963 Annual Report—American Brake Shoe Company's shipments in 1963 were $214,668,928, 4% higher than 1962 shipments of $207,212,032. Net earnings from operations were $7,440,744, 6% below the 1962 figure of $7,873,406. The reduction in earnings was caused by temporary conditions which are not expected to carry over into 1964. Brake Shoe entered 1964 with a strongly improved position, and all forecasts indicate high activity among industries the company serves.

T&N 1963 Annual Report—Turner & Newall Limited's 44th Annual Report and Accounts for the year ended September 30, 1963, has been issued. Net profit, after taxation, was £6,531,098. The company looks forward with confidence to the progress of its manufacturing companies during the current financial year. Although the less favorable factors on the mining side could well continue throughout 1964, their effect is expected to be outweighed by the more promising situation on the manufacturing side.

U. S. Rubber 1963 Annual Report—Strikes in nine company plants during the second half of the year reduced both sales and net income for the United States Rubber Company during 1963. Profit had been on the rise during the first six months. Sales, which totaled $980,229,858, were the second highest in the company's history, but were 2.6% below the record $1,006,792,650 set in 1962. Net income for the year was $22,104,586, 14% below the $25,694,400 reported for 1962.

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Fibreboard 1963 Annual Report—Earnings of Fibreboard Paper Products Corporation for 1963 rose to $4,118,000 from $2,704,000, an increase of 52%. Sales increased 6.6% and reached a record high of $124,466,000.

Ruberoid 1963 Annual Report—Net income of The Ruberoid Co. for 1963 amounted to $3,762,298 compared to $3,724,015 in 1962. These results are exclusive of a special charge of $576,919, primarily representing developmental and start-up expenses deferred in prior years in connection with certain new products.

1963 net sales totaled $117,392,981 compared to $120,972,053 in 1962.

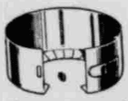
J-M 1963 Annual Report—Sales of the Johns-Manville Corporation set an all-time record in 1963 at $414,881,000 compared with $392,345,000 in 1962, the previous record year. Net earnings were $27,681,000 compared with $23,927,000 in 1962.

According to C. B. Burnett, President and Chief Executive Officer, "the outlook for further improvement in sales volume appears favorable in view of the optimistic forecasts for construction and general business in 1964".

Philip Carey 1963 Annual Report—Consolidated net earnings for 1963 of The Philip Carey Manufacturing Company were $2,142,208, which compares with $2,600,282 in 1962. Sales amounted to $69,362,770, against $73,202,084.

The continuing demand for more gradations of fibres and improved quality standards, by the consumers of asbestos fibres throughout the world, necessitated the installation of additional milling equipment at Carey's mines in Quebec, Canada.

The construction outlook for 1964 is good and the potential for the entire Philip Carey product line should be slightly better than last year.



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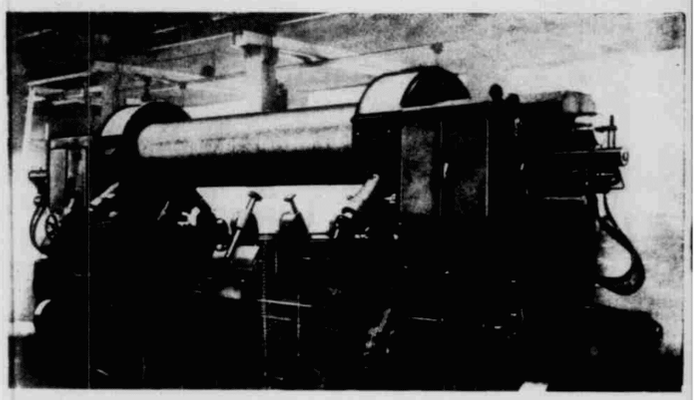
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E. A. DiSalvo has been appointed as Assistant to E. C. Meisner, Vice President-Manufacturing, Engineering, Research and Quality Control, by THE PHILIP CAREY MANUFACTURING COMPANY. Mr. DiSalvo will be headquartered in the company's General Offices in Cincinnati, Ohio.

Jay P. Nicely has been elected to the post of Vice-President-Sales of NATIONAL GYPSUM COMPANY. He joined National Gypsum in 1941 as a salesman, and has been Product Manager, Assistant District Manager, Washington, D. C. District Manager, General Commodity Manager, Midwest Division Manager, Dealer Sales Manager and Director of Sales.

J. William Duncan has been promoted to the new post of General Sales Manager-Trade Sales of NATIONAL GYPSUM COMPANY and will be responsible for industrial, commercial and paint sales. Mr. Duncan is the national President of the Acoustical Materials Association. He joined National Gypsum in 1952 as Paint Sales Manager and was named Manager of Commercial Sales in 1956.

Charles H. Peters, Director of Industrial Relations at RAYBESTOS MANHATTAN, INC., Manheim, Pennsylvania, has been elected a Fellow of the National Society for the Advancement of Management. A former President of the Lancaster unit of SAM, Mr. Peters is on the national board of directors and is a former regional vice-president. The honor was presented on the basis of years of service and contributions to management and management education.

Hugh Morton has been named Sales Engineer in the Palm Beach, Florida, sales district of ORANGEBURG MANUFACTURING COMPANY, a division of The Flintkote Company. He will handle Flintite asbestos-cement pressure pipe, irrigation pipe, building sewer pipe and electrical duct and Orangeburg brand fibre pipe, conduit and plastic pipe.

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& Fibres



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Victor L. Persbacker has been elected as Vice-President-Finance for AMERICAN BRAKE SHOE COMPANY. He joined Brake Shoe in 1934 and was named Comptroller in 1954 and Vice-President and Treasurer in 1961.

Owen B. Cottle has been elected Treasurer of AMERICAN BRAKE SHOE COMPANY. He joined Brake Shoe's Treasury Department in 1946 and was made Assistant Treasurer in 1961.

Ralph J. Switzer, Jr. has been elected Assistant Treasurer of AMERICAN BRAKE SHOE COMPANY. He joined the company in 1948, has worked for the Railroad Products Division and the Purchasing Department and, more recently, has been Credit Manager.

William T. Kelly, Jr. has been elected First Vice President of AMERICAN BRAKE SHOE COMPANY. He joined Brake Shoe in 1928, was appointed general purchasing agent in 1940, was made President of the Kellogg Division in 1945 and later served as President of the Engineered Castings Division and the American Brakeblok Division. He has been a Vice President of the corporation since 1946 and a member of the board of directors since 1955.

Maynard B. Terry has been elected Vice President of AMERICAN BRAKE SHOE COMPANY. He joined the company in a sales management position in 1943, was appointed Vice President of American Brakeblok Division in 1949, and President in 1953. He is also a Director of Brake Shoe subsidiaries in Canada, Mexico and France.

„ Tropag "
Hamburg —:— Ballindamm 6
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NEEDLED FELTS
FOR
ASBESTOS CEMENT PRODUCTS
SIDING
SHEETS
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WORLD'S FIRST MANUFACTURER OF NEEDLED FELTS
Greater durability — Uniform quality — Rapid delivery
DRYCOR FELT COMPANY
STAFFORDVILLE, CONNECTICUT, U.S.A.

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CURRENT RANGE OF PRICE

As of March 10, 1963

ARIZONA— Per Ton of 2,000 lbs., f.o.b. Globe, Arizona

No. 1 Crude	$1,410.00 to	$1,495.00
No. 2 Crude	610.00 to	875.00
Group No. 3 (Non-Ferrous Filtering & Spinning)	425.00 to	550.00
Group No. 4 (Non-Ferrous Plastic & Filtering)	385.00 to	500.00
Group No. 5 (Plastic & Filtering)	250.00 to	400.00
Group No. 7 (Refuse & Shorts)	58.00 to	90.00

CANADA— Per Ton 2,000 lbs. f.o.b. Mine
Canadian Currency

Group No. 1 (Crude No. 1)	$1,410.00 to	$1,475.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	610.00 to	875.00
Group No. 3 (Spinning Fibre)	350.00 to	650.00
Group No. 4 (Shingle Fibre)	180.00 to	245.00
Group No. 5 (Paper)	120.00 to	150.00
Group No. 6 (Waste, Stucco or Plaster)	..	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	80.00

VERMONT— Per ton of 2,000 lbs. f.o.b. Mine
(U.S. Dollars—converted to Canadian equivalent)

Group No. 3 (Spinning & Filtering)	$ 345.00 to	$ 402.00
Group No. 4 (Shingle Fibre)	181.00 to	320.00
Group No. 5 (Paper Fibre)	120.00 to	142.00
Group No. 6 (Waste, Stucco or Plaster)	.. to	86.00
Group No. 7 (Refuse or Shorts)	40.00 to	75.00

CASSIAR— Per Ton of 2,000 lbs., f.o.b. Vancouver, B. C.
(As of January 1, 1964) Canadian Currency

AAA grade (non-ferrous spinning fibre)	$ 787.00
AA grade (non-ferrous spinning fibre)	625.00
A grade (non-ferrous spinning—Canadian Group 3)	470.00
AC grade (asbestos cement—Canadian Group 4)	325.00
AD grade (asbestos-cement—Canadian Group 4)	260.00
AK grade (shingle fibre—Canadian Group 4)	220.00
AS grade (shingle fibre—Canadian Group 4)	181.00
AX grade (shingle fibre—Canadian Group 5)	160.00

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ASBESTOS STOCK QUOTATIONS

Those figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.

		February 1964		
	Par	Low	High	Last
Advocate Mines Ltd.	1	$6.25	$7.00	$6.45
American Brake Shoe	np	50¼	54	52¼
Asarco	np	89¼	92½	89¼
Armstrong Cork (Com)	1	106	115¼	112¾
Armstrong Cork (Pfd)	np	88	91	89½
Asbestos Corporation	np	19¼	21½	20¾
Philip Carey	10	24½	31⅞	31¾
Cassiar Asbestos	np	10¼	11	10⅜
Certain-teed	1	14⅛	15¼	14¾
Fibreboard	np	35¼	37⅜	36
Flintkote (Com)	5	23	24⅝	24⅛
Flintkote (Pfd)	np	89	90	90
Jefferson Lake Asbestos	1	3¼	4⅛	3⅝
Johns-Manville	5	52⅝	58	57⅞
National Gypsum (Com)	1	46	47⅜	47⅛
National Gypsum (Pfd)	np	99	101	100
Porter, H. K.	100	98¾	100	99¼
Raybestos-Manhattan	np	39	44½	44
Ruberoid	1	27⅞	30½	30¼
Seagrave	2½	9⅛	9⅞	9⅝
Unarco Industries	5	12⅛	13¼	13
United Asbestos	1	$2.35	$2.7	$2.75
U. S. Rubber (Com)	5	47	52⅜	52⅜
U. S. Rubber (Pfd)	100	167¼	172	167¼

"Specialty Fibres Our Business"

Metate Asbestos Corporation

P.O. Box 111 Globe, Arizona

Producers of Arizona Asbestos Grades
Non Ferrous - AAA, 3, 4, 5, 6, 7 and 8 Milled Fibres

Very white, low iron content, high drainage harsh fibres, precoat filtration fibres, acid washed filter fibre.

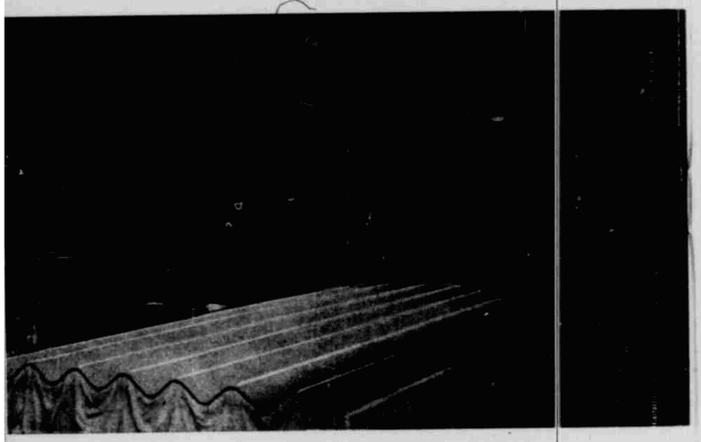


LAGGING IN FRONT

This is B.B.A. Asbestos Fibre-Filled Rope Lagging for Steam Pipe Insulation, one of many of asbestos products, from yarn and rovings to cloth, tapes and jointings of all types and the world-famous MINTEX friction materials made by B.B.A. In production, as in research, we are in the front of our field. To all intents and purposes, B.B.A. *is* Asbestos.

BRITISH BELTING & ASBESTOS LTD
CLECKHEATON, YORKSHIRE, ENGLAND

plants for producing asbestos - cement corrugated sheets



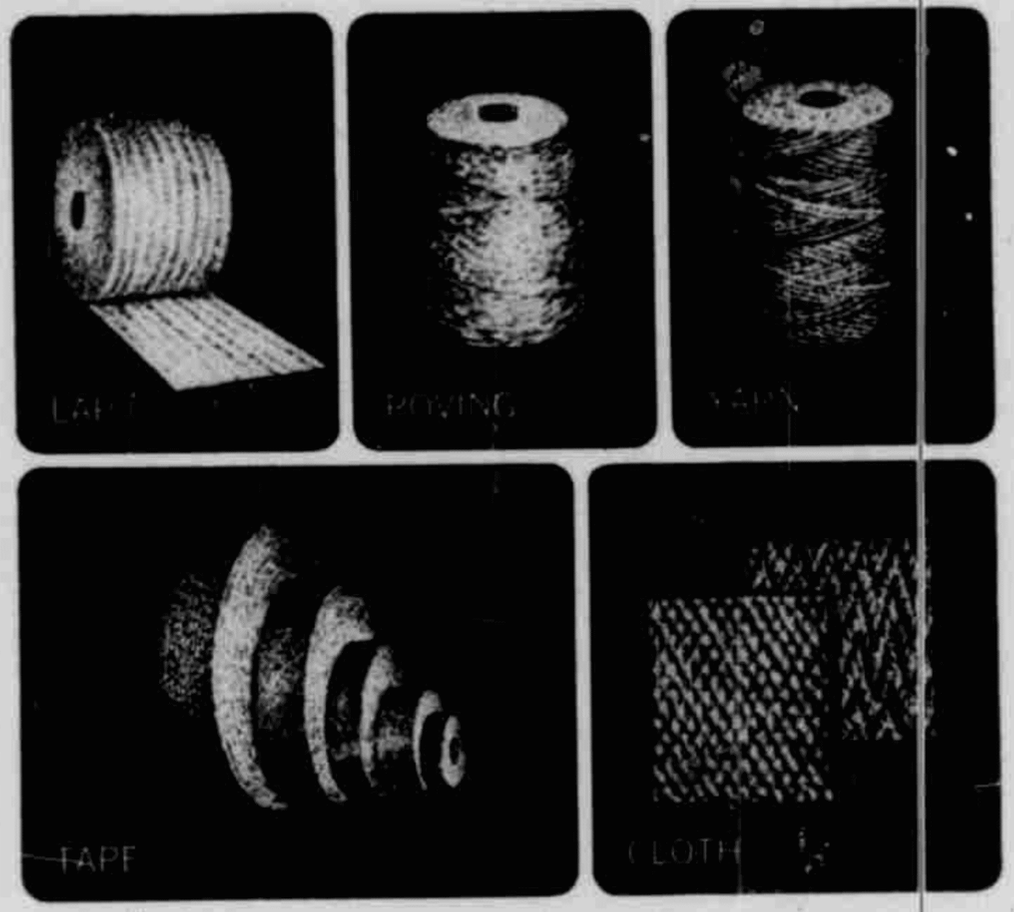
Machines for producing asbestos-cement sheets directly corrugated, having constant thickness or variable thickness with the lower profile equal to the upper one.
The sheets are obtained using as the starting material a thick slurry, deposited in superposed layers on corrugated moulds and compressed by means of mechanical vibrations.
With this type of machines short and very short asbestos fibres can be employed.

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whether it is plain or metallic cloth in herringbone or other weaves, or any of the more basic asbestos forms illustrated above, Porter Asbestos Textile products are available in all types, grades and forms.

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